

IIOO NEW YORK AVENUE, N.W. . WASHINGTON, D.C. 20005-3934

PHONE: (202) 371-2600 . FACSIMILE: (202) 371-2540 . www.skgf.com

MARD J. KESSLER

WARD J. KESSLER

WARD J. KESSLER

WARD J. KESSLER

A GOLDSTEIN

SAMUEL L. FOX***

DAVID K.S. CORNWELL

ROBERT W. ESMOND

TRACY-GENE G. DURKIN

MICHAEL B. RAY

ROBERT E. SOKOHL

ERIC K. STEFFE

MICHAEL O. LEE

STEVEN R. LUDWIG

JOHN M. COVERT LINDA E. ALCORN ROBERT C. MILLONIG MICHAEL V. MESSINGER JUDITH U. KIM TIMOTHY J. SHEA, JR. PATRICK E. GARRETT JEFFREY T. HELVEY* HEIDI L. KRAUS JEFFREY R. KURIN PATRICK D. O'BRIEN LAWRENCE B. BUGAISKY CRYSTAL D. SAYLES EDWARD W. YEE
ALBERT L. FERRO*
DONALD R. BANOWIT
PETER A. JACKMAN
MOLLY A. MCCALL
TERESA U. MEDLER
JEFFREY S. WEAVER
KENDRICK P. PATTERSON
DONALD J. FEATHERSTONE
VINCENT L. CAPUANO
JOHN A. HARROUN*
ALBERT J. FASULO II*
ELDORA ELLISON FLOYO*

W. RUSSELL SWINDELL THOMAS C. FIALA BRIAN J. DEL BUONO* VIRGIL L. BEASTON* RYAN J. STAMPER* REGINALD D. LUCAS* THEODORE A. WOOD ELIZABETH J. HAANES BRUCE E. CHALKER JOSEPH S. OSTROFF KAREN R. MARKOWICZ** SUZANNE E. ZISKA** ANDREA J. KAMAGE**

NANCY J. LEITH**
JOSEPH M. CONRAD, III**
DOUGLAS M. WILSON**
ANN E. SUMMERFIELD**
CYNTHIA M. BOUCHEZ**
HELENE C. CARLSON**
GABY L. LONGSWORTH**
DUSTIN T. JOHNSON**
MATTHEW J. DOWD**
AARON L. SCHWARTZ**

*LIMITED TO MATTERS
AND PROCEEDINGS BEFORE
FEDERAL COURTS & AGENCIES
**REGISTERED PATENT AGENT
***SENIOR COUNSEL

October 11, 2001

WRITER'S DIRECT NUMBER: (202) 371-2677 INTERNET ADDRESS: RSOKOHL@SKGF.COM

Commissioner for Patents Washington, D.C. 20231

Box Patent Application

Re: U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)

Appl. No. (to be assigned); Filed: (herewith)

For: Cable Modem System and Method for Dynamically
Mixing Protocol Specific Header Suppression Techniques

Inventors: Bunn *et al*.
Our Ref: 1875.0660001

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

- 1. PTO Fee Transmittal (Form PTO/SB/17);
- 2. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
- 3. U.S. Utility Patent Application entitled:

Cable Modem System and Method for Dynamically Mixing Protocol Specific Header Suppression Techniques Commissioner for Patents October 11, 2001 Page 2

and naming as inventors:

Fred A. BUNN Thomas L. JOHNSON

the application consisting of:

- a. a specification containing:
 - i. <u>57</u> pages of description prior to the claims;
 - ii. 4 pages of claims (17 claims);
 - iii. a one (1) page abstract;
- b. <u>29</u> sheets of drawings: (Figures 1-5, 6A-6C, 7-8, 9A-9B, 10-11, 12A-12B, 13, 14A-14B, 15, 16A-16B, and 17-23); and
- c. an Application Data Sheet;
- 4. Original executed Declaration for Patent Application;
- 5. Authorization to Treat a Reply as Incorporating an Extension of Time under 37 C.F.R. § 1.136(a)(3) (in duplicate);
- 6. Recordation Form Cover Sheet;
- 7. Original executed Assignment to <u>Broadcom Corporation</u>, recordation of which is hereby respectfully requested;
- 8. Two (2) return postcards; and
- 9. SKG&F check no. **32849** in the amount of **\$780.00** to cover: \$740.00 fee for filing patent application; and \$40.00 for recording Assignment.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or

Commissioner for Patents October 11, 2001 Page 3

credit any overpayment, to our Deposit Account No. 19-0036. A duplicate copy of this letter is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Robert Sokohl Attorney for Applicants Registration No. 36,013

RES/WBE:mlb Enclosures

SIGNATURE

ed for use through 10/31/2002. OMB 0651-0032

NO Office: U.S. DEPARTMENT OF COMMERCE

Date

Patent and Trade Under the Paperwork Reduction Act of 1995, no persons are required to

UTILITY PATENT APPLICATION **TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR § 1.53(b))

Attorney Docket No. First Inventor		1875.0660001					
		Bunn et al.					
Title	Cable Modem System and Method for Dynamically Mixing Protocol Specific Header Suppression Techniques						
Evprass	Mail Label No						

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, DC 20231
1. Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original, and a duplicate for fee processing) 2. Applicant claims small entity status. See 37 CFR 1.27. 3. Specification [Total Pages: 62] (preferred arrangement set forth below) - Descriptive title of the Invention - Cross Reference to Related Applications - Background of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure 4. Drawing(s) (35 U.S.C. 113) [Total Sheets: 29] 5. Oath or Declaration [Total Pages: 2] a. Newly executed (original or copy) b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR §§ 1.63(d)(2) and 1.33(b). 6. Application Data Sheet. See 37 CFR 1.76.	7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. paper c. Statements verifying identity of above copies ACCOMPANYING APPLICATION PARTS Assignment Papers (cover sheet & document(s)) 10. 37 CFR 3.73(b) Statement power of Attorney (when there is an assignee) 11. English Translation Document (if applicable) 12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations 13. Preliminary Amendment 14. Two (2) Return Receipt Postcards (MPEP 503) (Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. Other: Authorization to Treat a Reply as Incorporating an
Customer No. 26111 Customer No. 26111 STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. Attorneys at Law	Extension of Time under 37 C.F.R. § 1.136(a)(3) (in duplicate) Other: The name of the assignee is: Broadcom Corporation supply the requisite information below and in a preliminary amendment, CIP) of prior application No:/ Group/Art Unit: of the prior application, from which an oath or declaration is supplied under Box 5b, is ional application and is hereby incorporated by reference. The incorporation can only displication parts. ONDENCE ADDRESS OR Correspondence address below
ADDRESS	TIN CODE
CITY STATE	ZIP CODE
COUNTRY TELEPHONE	FAX
MAME (Print/Time) Pohert Comb	Pagistration No. (Magraph January) 26.012
NAME (Print/Type) Robert Soloh	Registration No. (Attorney/Agent) 36,013

Approved for use through 10/31/2002. OMB 0651-0032
Pand Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

(\$)780.00

Complete if Known							
Application Number	(to be assigned)						
Filing Date	(herewith)						
First Named Inventor	Bunn et al.						
Examiner Name	(to be assigned)						
Group Art Unit	(to be assigned)						
Attorney Docket No.	1875.0660001						

METHOD OF PAYMENT (check one)		FEE CALCULATION (continued)							
1. The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to:		TIONAL Entity		Entity					
Deposit Account Number 19-0036	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee D	escription	Fee paid		
Deposit Account Name Sterne, Kessler, Goldstein & Fox P.L.L.C.	105	130	205	65	Surcharge - late filing fee or oath				
Charge Any Additional Fee Required under 37 CFR §§ 1.16 and 1.17		50	227	25	Surcharge - late provisiona	I filing fee or cover sheet			
		130	139	130	Non-English specifi	English specification			
Applicant claims small entity status See 37 CFR 1.27		2,520	147	2,520	For filing a request fo	ation			
See 37 CFR 1.27	112	920*	112	920*	Requesting publication of action				
2. Payment Enclosed:	113	1,840*	113	1,840*	Requesting publication of	f SIR after Examiner a	ction		
Credit card Money Order Other* "Charge any deficiencies or credit any overpayments in the fees or fee eaculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036.		110	215	55	Extension for reply wi	thin first month			
FEE CALCULATION	116	400	216	200	Extension for reply wi	tension for reply within second month			
I. BASIC FILING FEE	117	920	217	460	Extension for reply wi	for reply within third month			
Earge Entity Small Entity Fee Fee Fee Fee Description Fee Paid	118	1,440	218	720	Extension for reply wi	thin fourth month			
Fee Fee Fee Fee Description Fee Paid Code (\$) Code (\$)	128	1,960	228	980	Extension for reply wi	thin fifth month			
101 740 201 370 Utility filing fee <u>740.00</u>	119	320	219	160	Notice of Appeal	•			
106 330 206 165 Design filing fee	120	320	220	160	Filing a brief in support of an appeal				
107 510 207 255 Plant filing fee	121	280	221	140	Request for oral hearing				
108 740 208 370 Reissue filing fee	138	1,510	138	1,510	Petition to institute a	oublic use proceedir	ıg		
114 160 214 80 Provisional filing fee	140	110	240	55	Petition to revive - un	avoidable			
SUBTOTAL (1) (\$) 740.00	141	1,280	241	640	Petition to revive - un				
55_75.11.2(1) (4) <u>-1.11.1</u>	142	1,280	242	640	Utility issue fee (or re				
	143	460	243	230	Design issue fee				
	144	620	244	310	Plant issue fee				
	122	130	122	130	Petitions to the Comn	nissioner			
2. EXTRA CLAIM FEES Fee from Extra below Fee Paid	123	130	123	130	Petitions related to pr	ovisional application	ıs		
Total Claims 17 - 20** =0 X = 0	126	180	126	180	Submission of Inform	ation Disclosure Stn	nt		
Indep. Claims 3 - 3** = 0 X = 0	581	40	481	40	Recording each pater property (times numb		40.00		
Multiple Dependent =	146	740	246	370	Filing a submission at (37 CFR 1.129(a))	fter final rejection			
Large Entity Small Entity Fee Fee Fee Fee Fee Description	149	740	249	370	For each additional in (37 CFR 1.129(b))	vention to be exami	ned		
Code (\$) Code (\$) 103 18 203 9 Claims in excess of 20	179	740	279	370	Request for Continue	d Examination (RCE	<u>:</u>)		
102 84 202 42 Independent claims in excess of 3 104 280 204 140 Multiple dependent claim	169	900	169	900	Request for expedited examination of a design application				
108 84 209 42 **Reissue independent claims over original	Other fee	Other fee (specify) :							
patent 110 18 210 9 Patent Reissue claims in excess of 20 and over original patent	Other fee (specify) :								
SUBTOTAL (2) (\$) <u>0</u>	*Reduced by Basic Filing Fee Paid			Paid					
** or number previously paid, if greater; For Reissues, see above	<u></u>	SUBTOTAL (3) (\$) 40.00							
SUBMITTED BY						Complete (if appl	icable)		
Name (Print/Type) Bothert Spay		Re (Att	egistration torney/Agent	No.	36,013	Telephone	202-371-2600		
Signature Date to 11 d (



In re application of:

Bunn et al.

Appl. No. (to be assigned)

Filed: (herewith)

For: Cable Modem System and Method

for Dynamically Mixing Protocol

Specific Header Suppression Techniques

Confirmation No. (to be assigned)

Art Unit: (to be assigned)

Examiner: (to be assigned)

Atty. Docket: 1875.0660001

Authorization to Treat a Reply as Incorporating an Extension of Time under 37 C.F.R. § 1.136(a)(3)

Commissioner for Patents Washington, D.C. 20231

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply. A duplicate copy of this authorization is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Robert Sokohl

Attorney for Applicants

Registration No. 36,013

1100 New York Avenue, N.W., Suite 600

Washington, D.C. 20005-3934

(202) 371-2600